SAM (REX/Ops) Operations Meeting 2008.04.29
Present: Adam (typist), Randolph, Angela, Art, SteveS, SteveW, Eric, John Yoh, Robert, Parag, Krzysztof, Dave Berg
Meeting time: 50 minutes

For reports submitted to the meeting...
The report text is in this font
Comments made during the meeting are in this font inline with the report

Releases:
No new releases. Randolph is writing code to make availability_status work correctly when explicitly given in the dimension query. Will also improve the tests to fix the uncaught problem. In CVS by end of week.

DØ:
Absence: I (Kin Yip) will be out of town next week and so NO weekly SAM shift report from Dzero. Sorry.

Things worth noting:

--- In response to last week's minutes, as a simpler request/suggestion, can you just copy the .k5login from d0db@d0dbsrv5
to d0db@d0dbsrv4 so that the SAM shifter can also get access to d0dbsrv4 to restart the calibration server for the FARM as well ??
All of these machines mount their home area from d0ora2 - so not sure what this is about. Will talk to Kin.

--- Shifters this week have completed all the recocert runs.

--- Oracle's Quarterly patch has been completed on the d0 dev box on Apr. 22.

Unresolved issues:

#3561: "Limits on number of merge jobs" --- Mike is asking for the limit to be increased to 150 ?
Steve increased the limit and Adam wrote a script to kill the stale globus-job-managers. Needs to go into a cron job. Parag says to dial limits back down - we should see how many jobs are possible to run and set limit accordingly. Note that we must be careful on samgfwd01 since that node has the station too and the pmasters.

#3557/3560 : "High rate of failures from GridFTP servers" -- No expert comment yet ?
Robert couldn't see anything obviously wrong (everything was succeeding). Will look

at it more. One end of the connection is getting an unexpected end of file error - but not clear from the error which end.

#3544: "samg submits failing again" --- checking with Mike whether we could close this ticket.
This was hitting the 31.998 subdirectory limit. Robert has a script that moves the directories to new sub-directories (Parag wrote one too). Robert makes a symlink - Parag says this is bad because the symlinks will bog down condor eventually (does not seem to be happening now). Maybe the slowness was due to raid problems. Anyway we have solutions.

CDF:

CDF SAM weekly summary report for 4/22-4/28, John Yoh

Summary :
An uneventful week, with some periods of heavy
demand in files to restore and LT03 movers--

DCache "Files to restore" --
especially Thur 4/24/ around 1600 with 1000 files to restore from
Raw Pools; and several periods of ~300 in the following 3 days), --but the system perform well.
1000 files is actually not that many - 3000 is a lot. But everything survived!

9940B movers have very little traffic, but LT03 was in heavy usage (with almost all movers in use) from Th 4/24 1600 to now--system performs well

Wed Apr 23 to Th Apr 24 (fcdfdata135 offline for memory test-
  was stable afterwards)

Angela: DB listeners and hang monitors having problems - killing DB servers was not complete - left old hang monitors and listeners around which prevented new DB servers from starting up. Has not been another kill since this time. Was on fcdfsam2; fcdfsam1 still has some servers without hang monitors on them. Investigating.

Randolph - Ramping up with JIRA - Assigned to add a new generic dataset. Waiting for user.

MINOS:

General

  Reprocessing over 18K Monte Carlo fi les with bad magnetic field
    Generating new files with pass '1' in name, standard Minos practice.

Enstore -

DCache   -

SAM   -

Oracle   -

  Oracle quarterly patches
      Applied and tested on dev/int on Thu April 24
      Request production at end of May during the major DCache downtime

OPEN ISSUES

  IT 1146: cannot test existence of sam tape location
  IT 2071: quadratic project startup time growth

PLAN   -

DB:

Announcement:
- Oracle's Quarterly patch was released week of Aprl 14. Need to schedule this patch
on dev/int/prd databases.

D0 :

- May 06, 2008 Oracle's Quarterly patch and Db patch 5648872 for fi x "ORA-error
stack (07445[opidsa()+480])"
  on d0ofint1 and d0ofprd1

Alert(s):

Tablespace [OPERATIONAL_01] is [80.13 percent] full
Action : Added 4GB

- Tablespace [CONSUMED_FILES_P01] is [80 percent] full
Action: Added 800MB

CDF :

- Steve White is cleaning up the cached_files table.

- Need to schedule Oracle's Quarterly patch on cdfofpr2 database.

Alert(s):
- There was possible inconsistency in two of the indices on cached_files table. (Index name : CF_CFSTAT_FK_I
  and index name : CF_WG_BE_UNCACHED_FK_I) on cdfofpr2 database. This was noticed during maintenance on cached_files table.
  Dropped and recreated the indices mentioned. No interruption to database.

MINOS:

- Scheduling Oracle's Quarterly patch on minosdev and minosint On April 24 - Done

- Scheduling Oracle's Quarterly patch on minosprd for May 15

Randolph says that user running long queries from script - user installed fixed script (for cdfofpr2).

Enstore/dCache:

Scheduled Downtimes:

 o cdfen - Wed, Apr 30, 8-9 am
   - upgrade of the ACSLS license and software on the node that
     controls the silos on FCC2 to support the third SL8500.
   - pnfs, dcache, and LTO3 operation will be unaffected
 o d0en - Tue, May 6, 8 am - noon
   - ADIC will adjust or replace the barcode reader on Robot 2
     in the AML/2.
   - relocation of fiber ports on switch affects movers

Operations:

 o d0en
   - 2 LTO4 drives will soon be available for D0 production
   - 171 LTO2 blanks loaded into the AML/2 and declared to enstore
   - 130 9940B blanks loaded into the silos and declared to enstore
   - questions about consolidation of fi le families during migration
   - questions about tapes with unreadable files
   - blank tape stuck in drive over the weekend, tape lost leader,
     drive has been replaced
   - placed 5 h/w service calls last week

To change to LTO4, existing pnfs directories must have their library changed and the autodest must be changed so that new directories have the right library. Steve will look into the latter.

During the migration, found a tape that was bad (only four files were readable). D0 was notified a year ago. Does D0 want this tape? Original files are still in enstore and pnfs. D0 may have written new files with new names. Sent mail to d0en-announce about this. D0en needs a D0 liaison too (Qizhong?).

o cdfen
  - All cdf movers have been upgraded to the latest enstore rpm
  - 960 LTO3 blanks loaded into the SL8500s; 500 have been declared
    to enstore.

o cdfdca
  - dCache pools have been restarted on fcdfdata135 after memory tests.

o stken
  - stkensrv3 raid array successfully rebuilt, stkensrv3 rebooted
  - LTO3 LM recovered with no movers offline, no tapes noaccess
  - placed 4 h/w service calls last week

o fndca
  - failed raid disks were replaced on 2 pool nodes, arrays rebuilt

Thanks,
David